

## ABSTRACT

### An electrical power supply system having two batteries for an electric motor vehicle

An electrical power supply system (1) for an electrically powered motor vehicle,  
5 said vehicle including an electric motor (3), and a transmission device for  
transmitting energy between the drive wheels (2) and the motor (3), said vehicle  
further including electrical accessories (4), in particular an air-conditioning device.

Said system (1) comprises a first rechargeable battery (5) serving to power the  
electric motor (3) and a second rechargeable battery (6) serving to power the  
10 electrical accessories (4) of the vehicle, the batteries being connected in parallel  
to the motor.

The invention also relates to a method for controlling such a system, and to an  
electric motor including such a system.